Receipt date: 10/05/2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re:		Wittich Kaule et al.	Confirmation No:	2401
Serial No	o:	10/599,659	Group:	Not Yet Assigned
Filed:		October 4, 2006	Examiner:	Not Yet Assigned
For:		Device and method for producing resist profiled elements		
Custome	er No.:	29127		
Attorney No.	Docket	0055.0013US1 (P-00060-WO/US)		
		INFORMATION DISCLOSURE STA	ATEMENT	
Commi P.O. Bo	top Amen issioner fo ox 1450 dria, VA			
Sir:				
This Info	under 37 C	sclosure Statement is submitted: FR 1.129(a), or submission after Final Rejection)		
[X]	(Within any o entry of the n	FR 1.97(b), or ne of the following time periods: three months of filing nat thonal stage in an international application; or before the m onal application, including a CPA, or a Request for Continu	ailing date of a first office action	
[]	under 37 C	FR 1.97(c) together with either:		
	[] a	Statement under 37 CFR 1.97(e), as checked be	low, or	
		\$180.00 fee under 37 CFR 1.17(p), or CFR 1.97(b) time period, but before final action or notice o	f allowance, whichever occurs	first)
[]	under 37 C	FR 1.97(d) together with:		
	[] a	Statement under 37 CFR 1.97(e), as checked be	low, and	
		\$180.00 fee under 37 CFR 1.17(p), or nal action or notice of allowance, whichever occurs first, but	t on or before payment of the is	ssue fee)
[]	Applicant	FR $1.97(i)$: requests that the IDS and cited reference(s) be payment of issue fee)	placed in the application	filewrapper.
Statemer	nt Under 37	CFR 1.97(e)		

[]	commu	nication fro	om a foreign patent of	is Information Disclosure St fice in a counterpart foreign formation Disclosure Statem	
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Stateme	nt Under	37 CFR 1.	.704(d) (Patent Term Appli after I	Adjustment) es to original applications (e May 29, 2000	ther than design) filed on or
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[X]	Enclose	d herewith	is form PTO-1449:		
	[X]	Copies of	the cited references a	re enclosed except US paten	t references.
	[]	which pri		n prior application, U.S. App 120 is claimed. [The earlier	
	[]	The listed counterpa	l references were cited rt foreign application.	in the enclosed International	l Search Report in a
	[X]		cise explanation" requ CFR 1.98(a)(3) is satis	irement (non-English referen sfied by:	nces) for reference(s) [
		[] (he explanation provid	ed on the attached sheet.	
		[X] 1	he explanation provid	ed in the Specification.	
		[X] 8	submission of the encl	osed International Search Re	port.
			submission of the enclo and/or foreign Office		on of a foreign Search Report
		[X] t	he enclosed English la	anguage abstract.	
		[X] t	he enclosed English la	anguage counterpart.	
[] Examiner's Initials	Applica	nt requests	that the following nor	n-published pending applica	tions be considered:
		U.S. Pate	nt Application No. [], by [inventor(s)], filed [], Docket No.: []
		U.S. Pate	nt Application No. [], by [inventor(s)], filed [], Docket No.: []

Attorney Docket No: 0055.0013US1 (P-00060-WO/US)

		U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: []
		Examiner	Date	
	[]	A copy of each above-cited app	lication, including the curre	nt claims, is enclosed.
	[]	A copy of each above-cited app those entered in prior application 35 U.S.C. 120 is claimed.		nt claims, is enclosed, except], to which priority under
		requested to return a copy of the considered with the next office o		ations indicating which
it is rec	quested tha	at the information disclosed here	in be made of record in this	application.
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[X]	No fee i	s required.		
			Respectfully s	ubmitted,
			Houston Elise	eva LLP
			By_ Mar Maria Elisee Registration	
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Dated:	October :	5, 2006		

PTO/SB/08A (07-06)

Approved for use through 09/30/2006. OMB 0851-0031 U.S. Patent and Tracemark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to rescond to a collection of information unless it contains a valid OMB control number Complete if Known Substitute for form 1449/PTO Application Number 10/599.659 Filing Date October 4, 2006 INFORMATION DISCLOSURE First Named Inventor Wittich Kaule et al. STATEMENT BY APPLICANT Art Unit Not Yet Assigned

(Use as many sheets as necessary) Examiner Name Not Yet Assigned Attorney Docket Number 0055,0013US1 (P-00060) Sheet 1 of 2

			U. S. PATEN	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ^{2 of Assemb}			rightes repeat
/M.S./		^{US-} 5,566,023	10/15/1996	Ernst-Bernhard Kley	
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Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	T ⁵
		Country Code ² "Number ⁴ "Kind Code ² (if known)	MM-DD-YYYY		Or Relevant Figures Appear	
/M.S./		DE4113027.8 A1	10/22/1992	Schneider Eckart		
/M.S./		EP0648343	04/19/1995	Ernst-Bernhard Kley		
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is collimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application from to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1448/PTO	Application Number	10/599,659	
INFORMATION DISCLOSURE	Filing Date	October 4, 2006	
STATEMENT BY APPLICANT	First Named Inventor	Wittich Kaule et al.	
(Use as many sheets as necessary)	Art Unit	Not Yet Assigned	
(Use as many sheets as necessary)	Examiner Name	Not Yet Assigned	
Sheet 2 of 2	Attorney Docket Number	0055.0013US1 (P-00060)	

Examiner	Cite	NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of	
Initials*	No.1	the item (book, magazine, journal, serial, symposium, catalog, etc.), (ate, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/M.S./		KLEY, E. et al. E-Beam lithography: a suitable technology for fabrication of high-accuracy Proceedings of the SPIE, 10/23/1995, p.71-80, v.2640, SPIE, Bellingham, VA, US.	
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/M.S./		LIN, L. Cross-section profiles of single-scan negative electron-resist lines. Journal of Vacuum Science and Technology, 11/1976, p.1289-93, v.12, n.6, AVS, NY, US.	
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/M.S./		WITTIG, L. et al. Intermittence effect in electron beam writing. Microelectronic Engineering, 9/2001, p.321-6, v.57-58, Elsevier Publishers, Amsterdam, NL.	

Examiner Signature	/Meenakshi Sahu/	Date Considered	/Meenakshi Sahu/

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

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	INTERNATIONAL SEARCH F	EDODT	
	TERNATIONAL SEARCH F	nation	al Application No
		PCT/EI	P2005/051451
A. CLASSI	FICATION OF SUBJECT MATTER G03F7/20 H01J37/317 G11B11/0	0	
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B. FIELDS	SEARCHED cumentation searched (classification system followed by classification	n avenhols)	
	G11B H01J G03F	,,	
Documentat	on searched other than minimum documentation to the extent that sa	sch documents are included in the t	ields searched
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EPO-In	ternal, INSPEC, IBM—TDB, WPI Data, P	AJ	
C. DOCUM	INTS CONSIDERED TO BE RELEVANT		
Category *	Otation of document, with indication, where appropriate, of the role	vant passages	Pelevant to claim No.
х	KLEY E-B ET AL: "E-BEAM LITHOGRA SUITABLE TECHNOLOGY FOR FABRICATI HIGH-ACCURACY 2D AND 3D SURFACE P	ON OF	1-30
	PROCEEDINGS OF THE SPIE, SPIE, BE VA, US,	LLINGHAM,	
	vol. 2640, 23 October 1995 (1995- pages 71-80, XP009031977 ISSN: 0277-786X	10-23),	
A	the whole document SCHNABEL B ET AL: "FABRICATION A		1
	APPLICATION OF SUBWAVELENGTH GRAT PROCEEDINGS OF THE SPIE, SPIE, BE VA, US,	LLINGHAM,	
	vol. 3008, 10 February 1997 (1997 pages 233-241, XP009031976 ISSN: 0277-786X	-02-10),	
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χ Furti	er occuments are listed in the continuation of box C.	Patent family members are	listed in annex.
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INTERNATIONAL SEARCH REPORT

PCT/EP2005/051451

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	ation) DCCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
A	HEIDENREICH R D ET AL: "Electron scattering and line profiles in negative electron resists" JOURNAL OF VACUUM SCIENCE AND TECHNOLOGY USA, vol. 12, no. 6, November 1976 (1976-11), pages 1284-1288, XPO02375481 ISSN: 0022-5355		
A	LIN L H: "Cross-section profiles of single-scan negative electron-resist lines" JOURNAL OF VACUUM SCIENCE AND TECHNOLOGY USA, vol. 12, no. 6, November 1976 (1976-11), pages 1289-1293, XP002375482 ISSN: 0022-5355		
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A	HAM Y-M ET AL: "APPLICATION OF A NEW EMPIRICAL MODEL TO THE LECTRON BEAM LITHOGRAPHY PROCESS WITH CHEMICALLY AMPLIFIED ESIST" JAPANESS DURNAL OF APPLIED PHYSICS, JAPAN SOCIETY OF APPLIED PHYSICS, TOKYO, JP, vol. 37, no. 12B, December 1998 (1998-12), pages 6761-6766, XP000880252		
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